RAW SEQUENCE LISTING

The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) no errors detected.

Application Serial Number:	10/575,905
Source:	IFWP
Date Processed by STIC:	04/27/2006
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ENTERED



IFWP

RAW SEQUENCE LISTING DATE: 04/27/2006
PATENT APPLICATION: US/10/575,905 TIME: 07:18:27

Input Set : A:\14875-161US1sq.txt

Output Set: N:\CRF4\04272006\J575905.raw

```
3 <110> APPLICANT: Hattori, Kunihiro
             Kojima, Tetsuo
     5
             Miyazaki, Taro
     6
             Soeda, Tetsuhiro
     7
             Senoo, Chiaki
     Я
             Natori, Osamu
     9
             Kasutani, Keiko
             Ishii, Shinya
    12 <120> TITLE OF INVENTION: BISPECIFIC ANTIBODY SUBSTITUTING FOR FUNCTIONAL PROTEINS
    14 <130> FILE REFERENCE: 14875-161US1
C--> 16 <140> CURRENT APPLICATION NUMBER: US/10/575,905
C--> 16 <141> CURRENT FILING DATE: 2006-04-14
    16 <150> PRIOR APPLICATION NUMBER: PCT/JP2003/013123
    17 <151> PRIOR FILING DATE: 2003-10-14
    19 <160> NUMBER OF SEQ ID NOS: 82
    21 <170> SOFTWARE: PatentIn version 3.1
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    25 <212> TYPE: PRT
    26 <213> ORGANISM: Homo sapiens
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    32 Ser Val Arg Leu Ser Cys Lys Ala Ser Gly Tyr Thr Phe Thr Phe Tyr
    35 Trp Ile Asn Trp Ile Lys Gln Arg Pro Glu Gln Gly Leu Glu Trp Ile
    38 Gly Arg Ile Asp Pro Tyr Asp Ser Glu Thr Arg Tyr Asn Gln Lys Phe
                                55
                                                    60
    41 Lys Asp Lys Ala Ile Leu Thr Val Asp Lys Tyr Ser Ser Thr Ala Tyr
                            70
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    44 Met Gln Leu Ser Ser Leu Thr Ser Glu Asp Ser Ala Val Tyr Tyr Cys
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    47 Ala Lys Gly Val Tyr Asp Gly His Trp Phe Phe Asp Val Trp Gly Ala
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    50 Gly Thr Ser Val Thr Val Ser Ser
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    54 <211> LENGTH: 108
    55 <212> TYPE: PRT
    56 <213> ORGANISM: Homo sapiens
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Input Set : A:\14875-161US1sq.txt
Output Set: N:\CRF4\04272006\J575905.raw

60 1 62 Asp Arg Val Ser Ile Thr Cys Lys Ala Ser Gln Asp Val Ser Thr Ala 25 65 Val Ala Trp Tyr Gln Gln Lys Pro Gly Gln Ser Pro Lys Leu Leu Ile 40 68 Tyr Ser Ala Ser Tyr Arg Tyr Thr Gly Val Pro Ala Arg Phe Ser Gly 71 Ser Gly Ser Gly Thr Asp Phe Thr Phe Thr Ile Ser Ser Val Gln Thr 70 75 74 Glu Asp Leu Ala Val Tyr Tyr Cys Gln Gln His Tyr Arg Thr Pro Pro 90 77 Thr Phe Gly Gly Gly Thr Lys Leu Glu Leu Lys Arg 78 100 80 <210> SEQ ID NO: 3 81 <211> LENGTH: 119 82 <212> TYPE: PRT 83 <213> ORGANISM: Homo sapiens 85 <400> SEQUENCE: 3 86 Gln Val Gln Leu Gln Gln Ser Gly Pro Glu Leu Glu Lys Pro Gly Ala 10 89 Ser Val Lys Ile Ser Cys Lys Ala Ser Gly Tyr Ser Phe Ser Asp Tyr 20 92 Asn Met Asn Trp Val Lys Gln Ser Asn Gly Lys Ser Leu Glu Trp Ile 40 95 Gly Asn Ile Asp Pro Tyr Asn Gly Asp Thr Asn Tyr Asn Gln Lys Phe 55 98 Lys Gly Lys Ala Thr Leu Thr Leu Asp Lys Ser Ser Ser Thr Ala Tyr 101 Met Gln Leu Lys Ser Leu Thr Ser Glu Asp Ser Ala Val Tyr Phe Cys 90 104 Ala Arg Ser Arg Gly Trp Leu Leu Pro Phe Ala Tyr Trp Gly Gln Gly 105 100 107 Thr Leu Val Thr Val Ser Ala 115 110 <210> SEQ ID NO: 4 111 <211> LENGTH: 108 112 <212> TYPE: PRT 113 <213> ORGANISM: Homo sapiens 115 <400> SEQUENCE: 4 116 Asp Ile Leu Met Thr Gln Ser Gln Lys Phe Met Ser Thr Ser Val Gly 119 Asp Arg Val Ser Val Thr Cys Lys Ala Ser Gln Asn Val Gly Ile Asn 122 Val Ala Trp Tyr Gln Gln Lys Pro Gly Gln Ser Pro Lys Ala Leu Ile 125 Tyr Ser Ala Ser Tyr Arg Tyr Ser Gly Val Pro Asp Arg Phe Thr Gly 55 128 Ser Gly Ser Gly Thr Asp Phe Thr Leu Thr Ile Ser Asn Val Gln Ser 70

Input Set : A:\14875-161US1sq.txt

Output Set: N:\CRF4\04272006\J575905.raw

131 Glu Asp Leu Ala Glu Tyr Phe Cys Gln Gln Tyr Asn Ser Tyr Pro Leu 132 85 134 Thr Phe Gly Gly Gly Thr Lys Leu Glu Ile Lys Arg 135 100 137 <210> SEQ ID NO: 5 138 <211> LENGTH: 117 139 <212> TYPE: PRT 140 <213> ORGANISM: Homo sapiens 142 <400> SEQUENCE: 5 143 Gln Val Gln Leu Gln Gln Ser Gly Pro Glu Leu Val Arg Pro Gly Val 146 Ser Val Lys Ile Ser Cys Lys Gly Ser Gly Tyr Thr Phe Thr Asp Tyr 149 Ala Ile His Trp Val Arg Gln Ser His Ala Gln Ser Leu Glu Trp Ile 152 Gly Val Ile Gly Thr Tyr Ser Gly Asn Arg Asn Tyr Asn Gln Lys Phe 55 155 Lys Gly Lys Ala Thr Met Thr Val Asp Lys Ser Ser Ser Thr Ala Tyr 70 158 Met Glu Leu Ala Arg Leu Thr Ser Glu Asp Ser Ala Ile Tyr Tyr Cys 85 161 Ala Arg Ser Ala Gly Tyr Ser Leu Asp Phe Trp Gly Gln Gly Thr Ser 105 100 164 Val Thr Val Ser Ser 115 165 167 <210> SEQ ID NO: 6 168 <211> LENGTH: 112 169 <212> TYPE: PRT 170 <213> ORGANISM: Homo sapiens 172 <400> SEQUENCE: 6 173 Asp Val Val Met Thr Gln Thr Pro Leu Thr Leu Ser Val Thr Ile Gly 174 1 10 5 176 Gln Pro Ala Ser Ile Ser Cys Lys Ser Ser Gln Ser Leu Leu Asp Ser 25 179 Asp Gly Lys Thr Tyr Leu Asn Trp Leu Leu Gln Arg Pro Gly Gln Ser 40 182 Pro Lys Arg Leu Ile Tyr Leu Val Ser Lys Leu Asp Ser Gly Val Pro 185 Asp Arg Phe Thr Gly Ser Gly Ser Gly Thr Asp Phe Thr Leu Lys Ile 70 75 188 Ser Arg Val Glu Ala Glu Asp Leu Gly Val Tyr Tyr Cys Trp Gln Gly 85 90 191 Lys His Phe Pro Trp Thr Phe Gly Gly Gly Thr Lys Leu Glu Ile Lys 100 105 194 <210> SEQ ID NO: 7 195 <211> LENGTH: 119 196 <212> TYPE: PRT 197 <213> ORGANISM: Homo sapiens 199 <400> SEQUENCE: 7

Input Set : A:\14875-161US1sq.txt
Output Set: N:\CRF4\04272006\J575905.raw

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Input Set : A:\14875-161US1sq.txt

Output Set: N:\CRF4\04272006\J575905.raw

272 Lys Gly Lys Val Thr Leu Thr Ala Asp Lys Ser Ser Ser Thr Ala Tyr 273 65 70 275 Met His Leu Ser Ser Leu Thr Ser Asp Asp Ser Ala Val Tyr Phe Cys 90 278 Ala Arg Ser Gly Trp Val Ser Ala Met Asp Tyr Trp Gly Gln Gly Thr 105 100 281 Ser Val Thr Val Ser Ser 282 115 284 <210> SEQ ID NO: 10 285 <211> LENGTH: 113 286 <212> TYPE: PRT 287 <213> ORGANISM: Homo sapiens 289 <400> SEQUENCE: 10 290 Asp Ile Val Met Thr Gln Thr Pro Leu Thr Leu Ser Val Thr Ile Gly 293 Gln Pro Ala Ser Ile Ser Cys Lys Ser Ser Gln Ser Leu Leu Asp Ser 20 . 25 296 Asp Gly Lys Thr Tyr Leu Asn Trp Leu Leu Gln Arg Pro Gly Gln Ser 299 Pro Lys Arg Leu Ile Tyr Leu Val Ser Lys Leu Asp Ser Gly Val Pro 302 Asp Arg Phe Thr Gly Ser Gly Ser Gly Thr Asp Phe Thr Leu Lys Ile 70 305 Ser Arg Val Glu Ala Glu Asp Leu Gly Val Tyr Tyr Cys Trp Gln Gly 90 85 308 Thr His Phe Pro Gln Thr Phe Gly Gly Gly Thr Lys Leu Glu Leu Lys 100 311 Arg 314 <210> SEQ ID NO: 11 315 <211> LENGTH: 118 316 <212> TYPE: PRT 317 <213> ORGANISM: Homo sapiens 319 <400> SEQUENCE: 11 320 Gln Val Gln Leu Gln Gln Ser Gly Val Glu Leu Val Arg Pro Gly Thr 10 323 Ser Val Lys Val Ser Cys Lys Ala Ser Gly Tyr Ala Phe Thr Asn Tyr 326 Leu Ile Glu Trp Val Lys Gln Arg Pro Gly Gln Gly Leu Asp Trp Ile 35 40 329 Gly Met Ile Asn Pro Gly Ser Gly Gly Thr Lys Cys Asn Lys Lys Phe 55 332 Lys Gly Lys Val Thr Leu Thr Ala Asp Lys Ser Ser Ser Thr Ala Tyr 70 335 Met His Leu Ser Ser Leu Thr Ser Asp Asp Ser Ala Val Tyr Phe Cys 338 Ala Arg Ser Gly Trp Val Tyr Ala Met Asp Tyr Trp Gly Gln Gly Thr 339 100 105 341 Ser Val Thr Val Ser Ser

115

Input Set : A:\14875-161US1sq.txt

Output Set: N:\CRF4\04272006\J575905.raw

Invalid <213> Response:

Use of "Artificial" only as "<213> Organism" response is incomplete, per 1.823(b) of New Sequence Rules. Valid response is Artificial Sequence.

Seq#:27,28,29,30,31,32,36,37,38

VERIFICATION SUMMARY DATE: 04/27/2006 PATENT APPLICATION: US/10/575,905 TIME: 07:18:28

Input Set : A:\14875-161US1sq.txt

Output Set: N:\CRF4\04272006\J575905.raw

L:16 M:270 C: Current Application Number differs, Replaced Current Application No L:16 M:271 C: Current Filing Date differs, Replaced Current Filing Date